

Manual:RoMON

From MikroTik Wiki

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Overview

This page contains information about RoMON feature in RouterOS. RoMON stands for "Router Management Overlay Network". RoMON works by establishing independent MAC layer peer discovery and data forwarding network. RoMON network operates independently from L2 or L3 forwarding configuration.

Each router on RoMON network is assigned its RoMON ID. RoMON ID can be selected from port MAC address or specified by user.

Configuration

In order for device to participate in RoMON network RoMON feature must be enabled and ports that participate in RoMON network must be specified.

RoMON feature is configured in **/romon** menu at version 6.28 and under **/tool romon** menu after version 6.28. It contains the following settings:

Property	Description
enabled (<i>yes / no</i> ; Default: no)	Disable or enable RoMON feature
id (<i>MAC address</i> ; Default: 00:00:00:00:00:00)	MAC address to use as ID of this router

When RoMON is enabled and ID is automatically selected, ID is reported in menu info:

```
Version 6.28:
[admin@R3] > romon print
;; RoMON running, ID 00:33:00:00:00:02
enabled: yes
id: 00:00:00:00:00:00

After version 6.28:
[admin@R3] > tool romon print
;; RoMON running, ID 00:33:00:00:00:02
enabled: yes
id: 00:00:00:00:00:00
```

Ports that participate in RoMON network are configured in **romon port** menu. Port list is ordered list of entries that match either specific port or all ports and specifies if matching port(s) is forbidden to participate in RoMON network and in case port is allowed to participate in RoMON network entry also specifies port cost. Note that all specific port entries must be placed above wildcard entry with **interface=all**.

For example, the following list specifies that all ports except **ether1** participate in RoMON network with cost 100:

```
Version 6.28:
[admin@R1] /romon port print
Flags: X - disabled, D - dynamic
# INTERFACE FORBID COST
0 ether1 yes 100
1 all no 100

After version 6.28:
[admin@R1] /tool romon port print
Flags: X - disabled, D - dynamic
# INTERFACE FORBID COST
0 ether1 yes 100
1 all no 100
```

By default one wildcard entry with **forbid=no** and **cost=100** is created.

Peer discovery

In order to discover all routers on RoMON network **romon discover** command must be used:

```
Version 6.28:
[admin@R1] romon discover
ADDRESS COST HOPS PATH L2MTU
00:22:00:00:00:02 200 1 00:22:00:00:00:02 1500
00:02:03:04:05:06 400 2 00:22:00:00:00:02 1500
00:02:03:04:05:06

After version 6.28:
[admin@R1] tool romon discover
ADDRESS COST HOPS PATH L2MTU
00:22:00:00:00:02 200 1 00:22:00:00:00:02 1500
00:02:03:04:05:06 400 2 00:22:00:00:00:02 1500
00:02:03:04:05:06
```

Applications

Multiple applications can be run over RoMON network.

Ping

In order to test reachability of specific router on RoMON network **romon ping** command can be used:

```
Version 6.28:
[admin@R1] romon ping 00:22:00:00:00:02
SEQ HOST TIME STATUS
0 00:22:00:00:00:02 0ms
1 00:22:00:00:00:02 1ms
2 00:22:00:00:00:02 1ms
sent=3 received=3 packet-loss=0% min-rtt=0ms avg-rtt=0ms max-rtt=1ms

After version 6.28:
[admin@R1] tool romon ping 00:22:00:00:00:02
SEQ HOST TIME STATUS
0 00:22:00:00:00:02 0ms
1 00:22:00:00:00:02 1ms
2 00:22:00:00:00:02 1ms
```

```
sent=3 received=3 packet-loss=0% min-rtt=0ms avg-rtt=0ms max-rtt=1ms
```

SSH

In order to establish secure terminal connection to router on RoMON network **romon ssh** command can be used, provided that **security** package is installed:

```
Version 6.28:  
[admin@R1] romon ssh 00:22:00:00:00:02  
After version 6.28:  
[admin@R1] tool romon ssh 00:22:00:00:00:02
```

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